

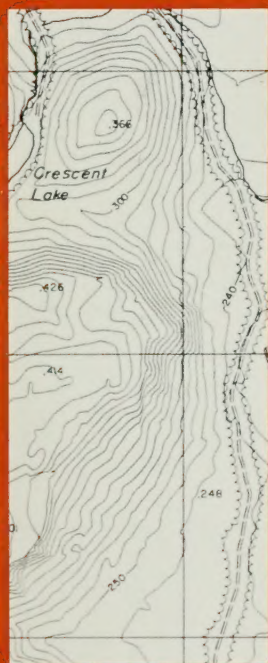
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ONTARIO CENTRE FOR REMOTE SENSING



Ontario

Ministry of
Natural
Resources

Lyn McLeod
Minister

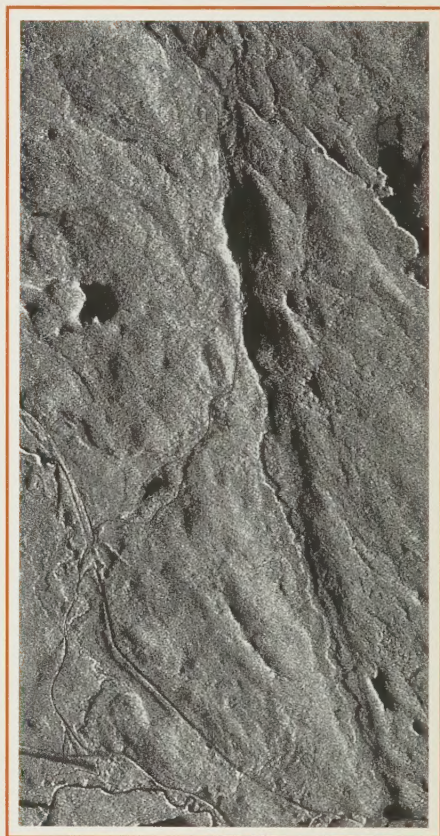
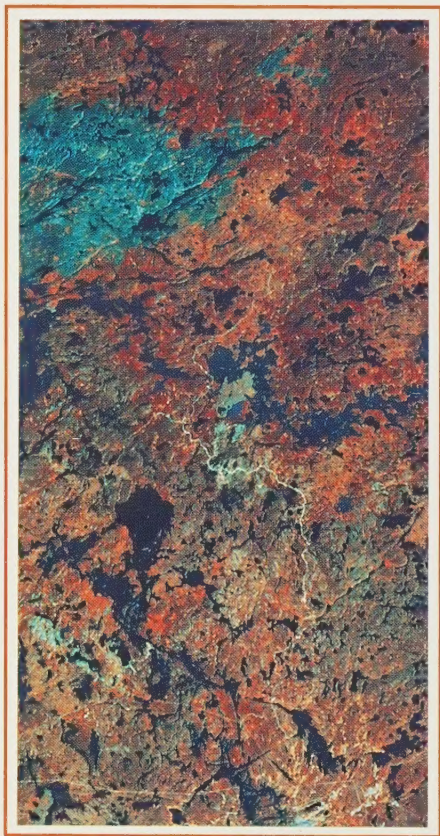
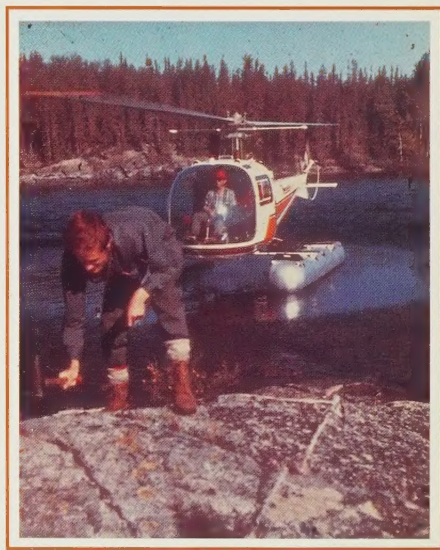
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NEEDED: INFORMATION FOR MANAGING RESOURCES

The OCRS multidisciplinary team of remote sensing specialists collaborates with resource managers to develop and establish remote sensing applications in

- FORESTRY
- LAND MANAGEMENT
- AGRICULTURE
- GEOLOGY
- ENGINEERING
- HYDROLOGY
- ENVIRONMENTAL MONITORING

OCRS aims to foster growth of an internationally competitive remote sensing industry in Ontario.



OCRS DEVELOPS REMOTE SENSING SOLUTIONS



OCRS offers . . .

- advice on remote sensing applications
- cooperative projects with resource managers to develop remote sensing techniques and put them into operation
- a reference library of Ontario satellite imagery
- transfer of remote sensing application technology to Ontario companies
- training courses; technical support for academic programs
- joint ventures with Ontario industry

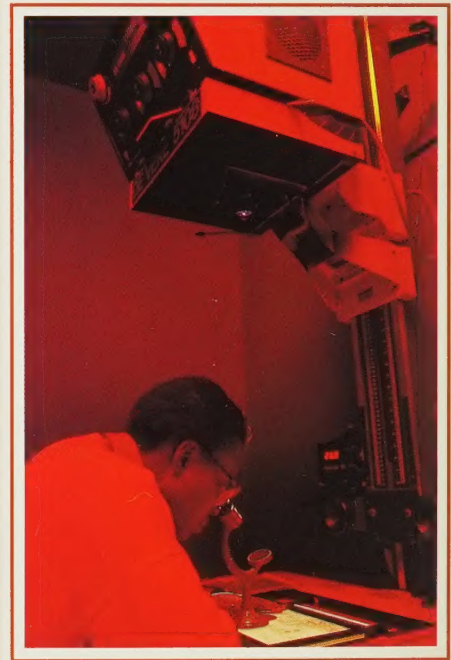


REMOTE SENSING DATA SOURCES



OCRS extracts resource information from a wide range of satellite and airborne remote sensing data, in digital or hard-copy form.

The Centre's in-house airborne sensing unit acquires aerial photography, thermography and other remote sensing data tailored to the needs of OCRS application-development projects. The Centre's specially-modified aircraft is used in joint-venture projects with



Ontario industry to test and demonstrate advanced electro-optical sensors.

An in-house facility provides specialized photographic processing and reproduction of remote sensing imagery. This unit has developed technology for colour infrared negative processing and printing.

REMOTE SENSING ANALYSIS



OCRS creates thematic maps and image enhancements on a network of Canadian-made digital image analysis systems.

OCRS adapts and supplements commercial image analysis software to meet the needs of operational applications.

Visual interpretation methods and facilities are also employed and developed.



OCRS develops techniques for integrating remote sensing analysis results into geographic information systems.



Maps are produced on ink-jet and electrostatic colour plotters.

RESOURCE INFORMATION OUTPUT



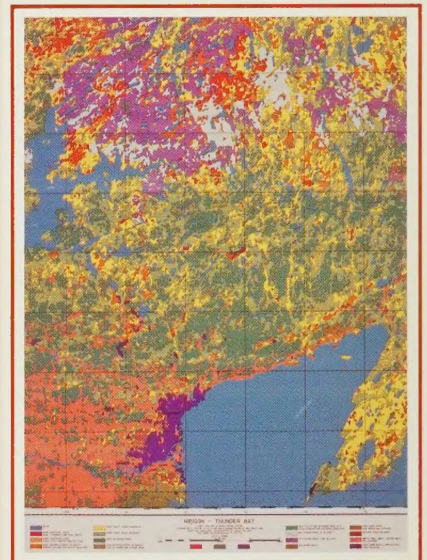
GOUDREAU - LOCHALSH AREA

SAMPLE DATA SETS
GENERAL GEOLOGY / RADAR / PHOTOINTERPRETED / LANDSAT TM
PROCESSED AT THE ONTARIO CENTRE FOR REMOTE SENSING / NOV 23-NOV-88
SCALE: 1:25000
CELL SIZE: 100 METERS
1 2 3 4 5
1000 1500 2000 2500 3000

OCRS has developed software to produce geo-referenced, fully-annotated, colour-coded maps of digital image classifications and enhancements.

Numerous data types are integrated to produce resource information. The digital mosaic above includes data digitized from a conventional geological map, airborne radar data, airborne geophysical data and satellite imagery.

OCRS collaborates with resource managers to field-test remote sensing results and to incorporate them into GIS data bases.



TRAINING, TECHNOLOGY TRANSFER, JOINT VENTURES



OCRS exchanges information with remote sensing organizations in many countries and hosts visiting scientists. OCRS staff have given courses and presentations abroad.

The Centre provides wide-ranging technical support for remote sensing education and research at Ontario universities and colleges.

OCRS develops specifications for commercial remote sensing application services and gives Ontario companies technical support and access to facilities.

OCRS enters into joint ventures with Ontario companies to develop remote sensing technology and to conduct the remote sensing application and training components of national and international contracts.



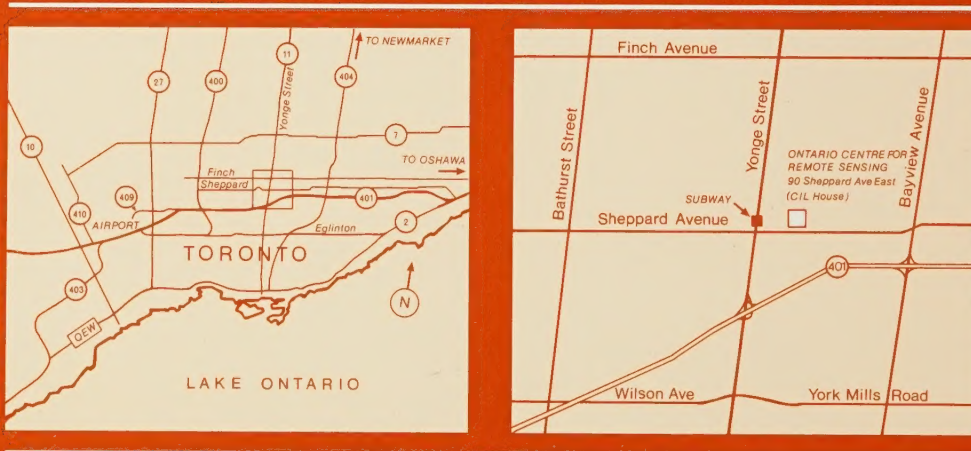
OCRS conducts annual short courses in applied remote sensing for working professionals. Individualized training is given by special arrangement.



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ONTARIO CENTRE FOR REMOTE SENSING

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